

Amendments to the Claims:

This listing of claims will replace all prior versions and listings of claims in the application:

Listing of Claims:

- 5 1 (currently amended): An output circuit comprising:
 an output port electrically connected to an output cable in a detachable manner;
 a signal circuit electrically connected to the output port for providing a signal current to the output port; and
10 a decision module comprising:
 a comparator electrically connected to the output port for comparing whether the signal voltage of the output port is larger than a predetermined detecting threshold when the decision module determines that the output port is not electrically connected to the
15 output cable, and for determining whether the output port is electrically re-connected to an output cable according to the comparison result of the comparator; and
 an amplifier electrically connected between the output port and the comparator for amplifying the signal voltage of output port when
20 the decision module determines that the output port is not electrically connected to the output cable, wherein the comparator compares whether the amplified signal voltage of output port is larger than the detecting threshold.
 ~~determining whether the output port is electrically connected to~~
25 ~~the output cable according to a signal voltage of the output port.—~~
- 2 (original): The output circuit of claim 1 wherein the decision module comprises a comparator for comparing whether the signal voltage
30 of the output port is larger than a predetermined signal threshold

and the comparison result of the comparator determines whether the output port is electrically connected to the output cable.

3 (original): The output circuit of claim 2 wherein the decision module
5 determines that the output port is not electrically connected to the output cable if the signal voltage of the output port is larger than the signal threshold.

10 4-5 (cancelled)

6 (currently amended): A method for detecting whether an output port of a circuit is electrically connected to an output cable, the method comprising:

- 15 (a) receiving a signal from the output port; [[and]]
(b) determining whether the output port is electrically connected to the output cable according to a signal voltage of output port;
(c) operating the circuit in a normal mode when it is determined that the output port is electrically connected to the output
20 cable; and
(d) operating the circuit in a power-saving mode when it is determined that the output port is not electrically connected to the output cable.

25 7 (currently amended): The method of claim 6 wherein the step (b) comprises determining whether the output port is electrically connected to the output cable is according to whether the signal voltage of the output port is larger than a predetermined signal threshold.

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8 (original): The method of claim 7 wherein it is determined that the output port is not electrically connected to the output cable when the signal voltage of the output port is larger than the signal threshold.

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9 (currently amended): The method of claim 6 wherein step (d) further comprising comprises providing a low power detecting signal to the output port when the circuit is operating in the power-saving mode ~~it is determined that the output port is not electrically~~
10 ~~connected to the output cable, the detecting signal having non-zero average power.~~

10 (currently amended): The method of claim 9 further comprising comparing whether the signal voltage of the output port is larger
15 than a predetermined detecting threshold when the circuit is operating in the power-saving mode, ~~after it is determined that the output port is not electrically connected to the output cable~~, then determining whether the output port is electrically re-connected to an output cable again according to the comparison result.

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11 (currently amended): The method of claim 10 wherein it is determined that the output port is not electrically re-connected to
[[an]] the output cable when the signal voltage of the output port is less than the detecting threshold.

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12 (currently amended): The method of claim 10 further comprising amplifying the signal voltage of the output ~~port~~when port ~~when~~
the circuit is operating in the power-saving mode ~~it is determined that the output port is not electrically connected to the output~~
30 ~~cable~~, and comparing whether the amplified signal voltage of the

output port is larger than a predetermined detecting threshold, then determining whether the output port is electrically connected to the output cable according to the comparison result.

5 13 (original): The method of claim 10 further comprising providing an
output signal to the output port when it is determined that the
output port is electrically re-connected to an output cable, and
comparing whether the signal voltage of the output port is larger
than a predetermined detecting threshold, then determining
10 whether the output port is electrically connected to the output
cable according to the comparison result.

14 (currently amended): ~~A displaying device~~ An output circuit
comprising:
15 an output port for electrically connecting to an output cable in a
detachable manner;
a signal circuit for providing a signal current to the output port;
and
a decision module for electrically connecting to the output port
20 and determining whether the output port is electrically
connected to the output cable according to a signal voltage of
the output port, the decision module comprising a control
circuit for operating the signal circuit in a normal mode when
it is determined that the output port is electrically connected
25 to the output cable, and for operating the signal circuit in a
power-saving mode when it is determined that the output port
is not electrically connected to the output cable.

15 (currently amended): The ~~displaying device~~ output circuit of claim
30 14 wherein the decision module comprises a comparator for

comparing whether the signal voltage of the output port is larger than a predetermined signal threshold and the decision module determines whether the output port is electrically connected to the output cable according to the comparison result of the comparator.

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16 (currently amended): The ~~displaying device~~ output circuit of claim 14 wherein the decision module comprises a comparator for comparing whether the signal voltage of the output port is larger than a predetermined detecting threshold when the signal circuit is operating in the power-saving mode ~~the decision module determines that the output port is not electrically connected to the output cable~~, the decision module ~~determines~~ determining whether the output port is re-connected to an output cable according to the comparison result of the comparator.

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17 (currently amended): The ~~displaying device~~ output circuit of claim 16 wherein the decision module further comprises an amplifier electrically connected between the output port and the comparator, when the signal circuit is operating in the power-saving mode ~~the decision module determines that the output port is not electrically connected to the output cable~~, the amplifier amplifying the signal voltage of the output port, the comparator ~~is used to compare~~ comparing whether the amplified signal voltage of the output port is larger than the detecting threshold.

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18 (currently amended): The ~~displaying device~~ output circuit of claim 16 further comprising:
a storing circuit for providing a data signal and reading the data on an optical disc to generate the data signal.

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